CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/SKSIPL/W.No.17/2017-18

Date: 16.02.2018

TEST REPORT

CLIENT	:	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
AGENCY	:	**Sri. B.N Girish** **SKS Infrastructure Pvt. Ltd.** #180, K.G Nagar, 1st Main Road, Bangalore-560019.
NAME OF THE WORK	:	Construction of Dhyana Mandira at JP Park Phase II in Ward No.17.
REFERENCE	:	EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	410 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

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Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2017-18 Date : 16.02.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri. B.N Girish**
SKS Infrastructure Pvt. Ltd.
#180, K.G Nagar, 1st Main Road, Bangalore-560019.

Name of Work : Construction of Dhyana Mandira at JP Park Phase II in Ward No.17

Reference : EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018

Date of Testing : 16.02.2018

Material : M - Sand Total Wt. of Aggregates **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	132	6.60	6.60	93.4	90-100
2.36	210	10.50	17.10	82.9	75-100
1.18	195	9.75	26.85	73.2	55-90
600 Micron	365	18.25	45.10	54.9	35-59
300 Micron	595	29.75	74.85	25.2	8-30
150 Micron	410	20.50	95.35	4.7	0-10

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2017-18 Date : 16.02.2018

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri. B.N Girish**
SKS Infrastructure Pvt. Ltd.
#180, K.G Nagar, 1st Main Road, Bangalore-560019.

Name of Work : Construction of Dhyana Mandira at JP Park Phase II in Ward No.17

Reference : EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018

Date of Testing : 16.02.2018

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	195	1.30	1.30	98.70	95-100
20	8425	56.17	57.47	42.53	30-70
10	3645	24.30	81.77	18.23	10-35
4.75	2158	14.39	96.15	3.85	0-5

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2017-18 Date : 16.02.2018

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri. B.N Girish**
SKS Infrastructure Pvt. Ltd.
#180, K.G Nagar, 1st Main Road, Bangalore-560019.

Name of Work : Construction of Dhyana Mandira at JP Park Phase II in Ward No.17

Reference : EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018

Date of Testing : 16.02.2018

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	199	4.0	4.0	96.0	95-100
10	3157	63.1	67.1	32.9	25-55
4.75	1245	24.9	92.0	8.0	0-10

Note:

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2017-18 Date : 16.02.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri. B.N Girish**
SKS Infrastructure Pvt. Ltd.
#180, K.G Nagar, 1st Main Road, Bangalore-560019.

Name of Work : Construction of Dhyana Mandira at JP Park Phase II in Ward No.17

Reference : EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018

Date of Testing : 16.02.2018

Material : River Sand Total Wt. of Aggregates **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	145	7.25	7.25	92.8	90-100
2.36	218	10.90	18.15	81.9	75-100
1.18	199	9.95	28.10	71.9	55-90
600 Micron	356	17.80	45.90	54.1	35-59
300 Micron	515	25.75	71.65	28.4	8-30
150 Micron	418	20.90	92.55	7.4	0-10

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2017-18 : 17.02.2018

TEST REPORT ON CEMENT CONCRETE SOLID BLOCKS

* Customer	: **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
* Agency	: **Sri. B.N Girish** **SKS Infrastructure Pvt. Ltd.** #180, K.G Nagar, 1st Main Road, Bangalore-560019.
* Name of the Work	: Construction of Dhyana Mandira at JP Park Phase II in Ward No.17
Reference	: EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018
Date of Testing	: 17.02.2018
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	35.8	329.4	4.12	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	36.9	335.9	4.20	
3	Block 3	34.2	333.8	4.17	
4	Block 4	38.1	330.5	4.13	

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2017-18 Date: 17.02.2018

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	:	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency	:	**Sri. B.N Girish** **SKS Infrastructure Pvt. Ltd.** #180, K.G Nagar, 1st Main Road, Bangalore-560019.
Name of Work	:	Construction of Dhyana Mandira at JP Park Phase II in Ward No.17.
Reference	:	EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018
Location	:	Plinth beam
Sample Identification	:	10mm,12mm,16mm,20mm, 25mm, Fe 500 TMT Bars
Technical Reference	:	IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test	:	17.02.2018

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.39	539	545	13.5
2	Fe 500	12	0.88	558	564	15.5
3	Fe 500	16	1.58	567	578	16
4	Fe 500	20	2.46	579	585	17
5	Fe 500	25	3.85	583	599	18.5

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2017-18 Date: 17.02.2018

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	:	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency	:	**Sri. B.N Girish** **SKS Infrastructure Pvt. Ltd.** #180, K.G Nagar, 1st Main Road, Bangalore-560019.
Name of Work	:	Construction of Dhyana Mandira at JP Park Phase II in Ward No.17.
Reference	:	EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018
Location	:	RCC Wall, Lintel Beam
Sample Identification	:	8mm, 12mm, 16mm, Fe 500 TMT Bars
Technical Reference	:	IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test	:	17.02.2018

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.39	542	558	14.5
2	Fe 500	12	0.88	559	564	15
3	Fe 500	16	1.58	564	578	16.5

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2017-18 Date: 17.02.2018

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	:	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency	:	**Sri. B.N Girish** **SKS Infrastructure Pvt. Ltd.** #180, K.G Nagar, 1st Main Road, Bangalore-560019.
Name of Work	:	Construction of Dhyana Mandira at JP Park Phase II in Ward No.17.
Reference	:	EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018
Location	:	Deck slab
Sample Identification	:	8mm, Fe 500 TMT Bars
Technical Reference	:	IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test	:	17.02.2018

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.39	542	558	14

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Job No.: CQCE/BBMP/SKSIPL/W.No.17/2017-18 Date: 10.07.2017

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Contractor	: **Sri. B.N Girish** **SKS Infrastructure Pvt. Ltd.** #180, K.G Nagar, 1st Main Road, Bangalore-560019..
Name of the work	: Construction of Dhyana Mandira at JP Park Phase II in Ward No.17.
Reference	: EE/RRND/Wo. No/000074/2017-18 dated:08.02.2018
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.06.2017	10.07.2017	8.115	265.2	11.79
2	12.06.2017	10.07.2017	8.128	248.9	11.06
3	12.06.2017	10.07.2017	8.145	282.3	12.55

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